5A6

DART AEROSPACE LTD	Work Order:	24699
Description: Bracket Assembly	Part Number:	D3121-043
		D3121-044
<b>Dwg:</b> D3121 Rev. C2 page 1, 3, 5	Qty:	5 Kits
D3121-043 replaces Premier P/N B30-23000-37		
D3121-044 replaces Premier P/N B30-23000-38		Page 1 of 1

Step	Location	Procedure	By,	Date	7 04	_
1	DC	Issue Traveler	+ 3y	Date	Qty	_
		Dwg not required	1921	05.10.26	5	
2	MV	Cut (1) blank per D3121-13 & (1) blank per D3121-14	10	10,0.22	<del>  _</del>	-
		Cut blanks (1.00" x 2.00") x 3.250" Long Bar				
		Material: 17-4 SS per AMS 5604/5643				
3	MV	(M17-4-B1.000x02.000) Batch: <u>M14773</u>	J.L	05.11.14	10	
3	IVIV	Machine D3121-13 as per Folio FA329 and Dwg D3121			5	7
4	QC2	Inspect parts as they come off the CNC machine	136	05.11.16	46	
•	452	mapeet parts as they come on the CNC machine			5	
5	MV	Machine D3121-14 as per Folio FA329 and Dwg D3121	130-	05.11.16	عها	_
			136-		5	
6	QC2	Inspect parts as they come off the CNC machine	100-	05.11.16		4
		10 To	36	05.11.16	5	
7	MV	Deburr	1		<del></del>	-
		Break all sharp edges 0.005 to 0.015	136	05.11.16	ίω	
8	MV	Scribe batch number to D3121-13-& D3121-14 at the back		·		†
9	QC5	face.	36	05.11.16	ío	
, j	1 000	Second check D3121-13 and D3121-14	12 x 1	1		
10	GA	Assemble D3121-043 as per Dwg D3121	777	05:11.16	19	1
ļ		Pick:				
			136	05.11.70	٠2	
		:2 D3121-21 Bolt B 24775B		i		
	·	2 D3121-241 Bearing Assembly 874777	1 1	1		
	F	Identify as D3121-043	1	, [		
11	GA	Assemble D3121-044 as per Dwg D3121				1
1	ı	Pick:	B6		2	
1	i	Batch Batch	50	05.11.70	5	10
1		5 2014315			ı	
		Boding toochibly B24+4+	SB	05/12/21	2	
12	QC5	Inspect work to Step 10 & 11		3011-(		
		,	11.	512-23	10	NS 201
13	ST	Identify and Stock in Spacedoor cell D3121-043 Qty 5	/			,
1	1			25/17/28	10	
14	AC	Parts to Stock and Prorate Cost to parts per Step 13		1511 2020		
			Sur	06-01-03	10	
15	DC	Close W/O	<del></del>	20,0730	<del>/</del>	
		Inspect Level 21	JOC	50/0/03	10	

Rev	Date	Change	. Revised By	Approved
A	02.05.21	New issue	NG	Approved
В	03.05.02	Reformat	KJ/RF	-
С	05.01.27	Revised Steps 10-11		
	05.01.27	Revised Steps 10-11	KJ/JLM	

RELEASED

Dart A	erospa	ce Ltd
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W/O:		WORK ORDER CHANGES						
DATE STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
	1						l	

Part No:	PAR #: _	Fault Category:	NCR: Yes No DQA:	Date: 0/0//03
			QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section B		Verification	T	Γ
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
								·

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	24699
Description: Bracket	Part Number:	D3121-13
Inspection Dwg: D3121 Rev: C2		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

	<u> </u>							
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments		
0.300	+/-0.010	रव४						
0.080	+/-0.010	.078						
0.392	+0.002/-0.000	-392	_					
0.350	+/-0.010	,352	_					
1.540	+/-0.010	1.541	/					
R0.250	+/-0.010	1750	/					
1.800	+/-0.010	1.807	~					
1.370	+/-0.010	NA						
1.050	+/-0.010	N'A						
0.420	+/-0.010	WA	1.	·				
0.400	+/-0.010	.397						
1.220	+/-0.010	1.217	/					
2.63	+/-0.030	2.630	_					
2.80	+/-0.030	7.800						
2.48	+/-0.030	7.460	-		`			
0.130	+/-0.010	.133	N-					
0.300	+/-0.010	300						
0.080	+/-0.010	٠٠٦٤			ı	· ·		
0.260	+/-0.010	. 262						
0.032	+/-0.010	.032						
0.200	+/-0.010	· 704						
0.400	+/-0.010	.398	<u></u>					
0.381	+/-0.010	373						
						•		

Measured by: るに	Audited by: 51	Prototype Approval:	N/A
Date: 05.11.15	Date: OS 11/15	Date:	N/A

Rev	Date	Change		Revised by	Approved
Α	05.02.17	New Issue	P/O D3121-043/-044	KJ/JLM	



H:\

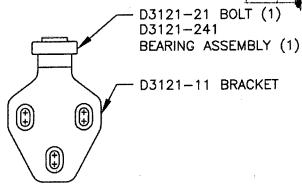




				the state of the s
	DESIG	"aff	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
	CHECK	(ED ,,	APPROVED	DRAWING NO. REV. C
		#	#	D3121 SHEET 1 OF 10
	DATE			TITLE SCALE
	04.0	2.17		BRACKET ASSEMBLY 1:2
_	Α		02.04.15	NEW ISSUE
	<b></b>		***	ADD BIDGES: ADD MAT'L PROP. FIX P/N

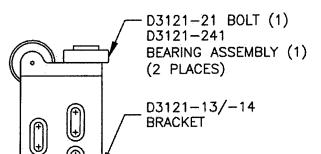
# RELEASED

UAIL.		IIILE SOUL
04.0	2.17	BRACKET ASSEMBLY 1:2
Α	02.04.15	NEW ISSUE
В	03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
С	. 04.02.17	ADD CLEARANCE; USE -241 BEARING
CI	OF 04.03.26	3.97 WAS 4.00; 6.11 WAS 6.14
CZ	# T# 04.04.26	0.230 WAS 0.238



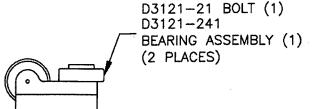
### D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)



D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-35/-36)

COFY IEN ] FIGURES OF

WORK ORDER NO. 24699

D3121-15/-16 BRACKET

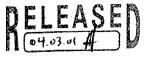
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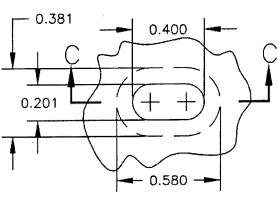


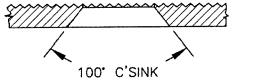


DESIGN	DRAWN BY		OSPACE LTD ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.	REV. C
#	#	D3121	SHEET 3 OF 10
DATE		TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:1



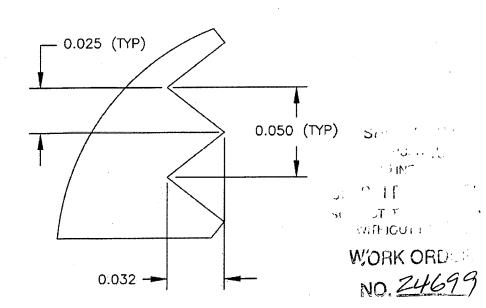
DETAIL A: SLOT DETAIL SCALE 2:1 VIEW ROTATED





**SECTION** 

DETAIL B: RIDGE DETAIL PARTIAL SECTION SCALE 1:20



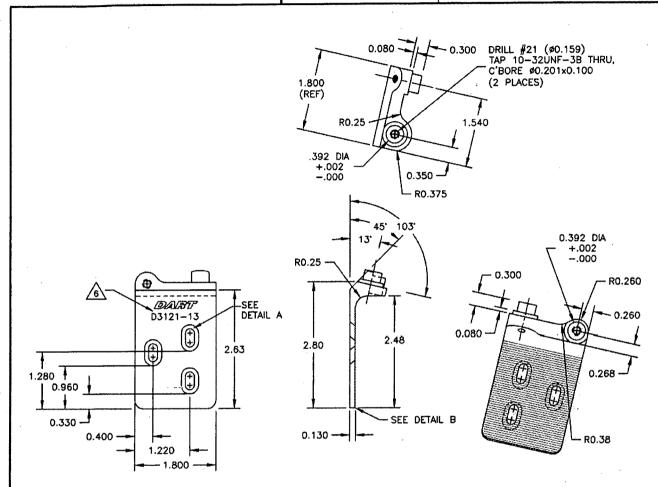
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DESIGN	DRAWN BY	DART AEROSF HAWKESBURY, ONTAF	3
CHECKED ,	APPROVED	DRAWING NO.	REV. C
#	#	D3121	SHEET 5 OF 10
DATE		TITLE	SCALE
04.02.18		BRACKET ASSEMBLY	1:2



SHOP COPY RETURN TO ENGINE TO

# D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE STRENGTH = 150 ksi

100 Times

MIN YIELD TENSILE STRENGTH = 100 ksi 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED WORK OF

- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N & LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

NO 24699

PELEASED

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### Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Oct 26, 2005 03:12 pm

Work Order No : 0024699

Project Name : D3121-043 Project For : WK546

Work Order Type : Main Main WO Number :

House Part Number : D3121-043 Description : Bracket Assembly

Manufactured : Yes

Amount Req'd: 5
Amount Done: 0
Start Date: 10-26-05

Est Finish Date : 11-15-05

Act Finish Date : Drawings Reqd : No Ok for Approval :

Approval Rec'd :

Department Code: ·

Burden Flags : NNNNNNN WO Status : Open

Invoice State : Not Invoiced

Invoice Date
Invoice Number:
Invoice Amount:

0.00

OE Value : 0.00

Est Mark Up : 0.000% Actual Mark Up : 0.000%

\$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
=======================================	==:	=======================================	=========	=======	:=== <b>==</b> =:	==========
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	.0.00.	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
			========	======	•	
Burden	:	0.00	0.00	0.00		
		=======	========	======		
Total Cost	:	0.00	0.00	0.00		
Mark up	:	0.000	0.000			
Selling Cost	:	0.00	0.00			

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00

Date

Friday, 11/18/2005 9:56:21 AM

Linda Lacelle User:

### **Process Sheet**

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 24699

**Estimate Number** 

: 10701

P.O. Number

This Issue

First Issue

Written By

**Previous Run** 

: 11/18/2005 S.O. No. :

: NC Prsht Rev.

: //

Type

: MACHINED PARTS

**Part Number** 

**Drawing Name** 

: D3121043

: BRACKET ASSEMBLY

**Drawing Number** 

D3121 REV C2

**Project Number** 

**Drawing Revision** : C2

Material

**Due Date** 

: 12/12/2005

Qty:

5 Um:

Each

**Checked & Approved By** 

Comment

: Est C 05.01.27 Revised Steps 10-11 KJ/JLM

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

1.0 2.0 M174B1000X02000 BAND SAW

17-4 SS Bar

BAND SAW



Comment: BAND SAW

Cut blanks: (1.000" x 2.000") 3.250" long

3.0

HAAS1

HAAS CNC VERTICAL MACHINING #1







Comment: HAAS CNC VERTICAL MACHINING #1

1-Machine D3121-13 as per Folio FA329 and Dwg D3121Identify as D3121-13

2-Deburr

3-Scribe batch number

4.0

QC2

INSPECT PARTS AS THEY COME OFF MACHINE





Comment: INSPECT PARTS AS THEY COME OFF MACHINE

5.0

QC8

SECOND CHECK





Comment: SECOND CHECK

6.0 D312121 7.0

Bolt

D3121241

Bearing Assembly

ستن د :Date :User

Friday, 11/18/2005 9:56:22 AM

Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BRACKET ASSEMBLY

Job Number: 24699

Part Number: D3121043

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

8.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1

& WILDIOW I AD INEGOVINE I

Comment: SMALL & MEDIUM FAB RESOURCE 1
Assemble D3121-13as per Dwg D3121.

9.0

QC5

INSPECT WORK TO CURRENT STEP



NSPECT WORK TO CURRENT STEP

Comment: INSPECT WORK TO CURRENT STEP

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1
Identify and Stock
Location:

11.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL Inspection Level 21

Job Completion



### Job Costing Report

Dart Aerospace Ltd. Nov 08, 2005 Hawkesbury 12:45 pm

Work Order No : 0024699 Department Code:

Project Name : D3121-043 Project For : WK546 Burden Flags : NNNNNNN WO Status : Open

Work Order Type : Main Main WO Number : Invoice State : Not Invoiced

Invoice Date : House Part Number : D3121-043

Description : Bracket Assembly Invoice Number :

Manufactured : Yes Invoice Amount: 0.00

Amount Req'd: 5
Amount Done: 0
Start Date: 10-26-05 Order Entry No :

OE Value : 0.00

Est Finish Date : 11-15-05
Act Finish Date : Drawings Reqd : No Est Margin : 0.000% Actual Margin : 0.000%

Ok for Approval :

Approval Rec'd : \$0 Posted to Finished Goods

		Estimated	Actual	٧ar. %	Posted	To Post
=======================================	==:	========		=======	==========	
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
		=======	=======	======		
Burden	:	0.00	0.00	0.00		
		=========	========	======		
Total Cost	:	0.00	0.00	0.00		
Margin	:	0.000	0.000			
Selling Cost	:	0.00	0.00			

		Estimated	ACTUAL
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00

